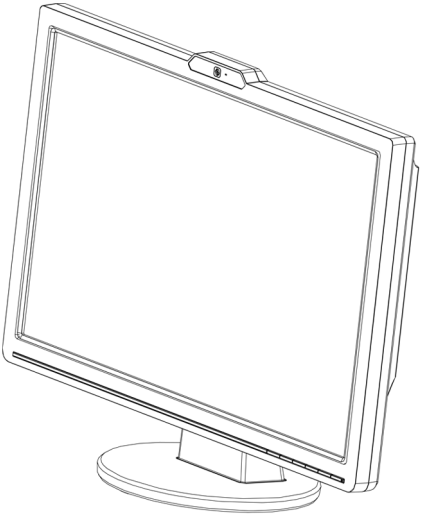
E3621 V1
January 2008

VK221/VK222 Series LCD Monitor

User Guide



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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer' s instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

As an Energy Star® Partner, our company has determined that this product meets the Energy Star® guidelines for energy efficiency.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

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Safety information

- Before setting up the monitor, carefully read all the documentation that came with the package.
- To prevent fire or shock hazard, never expose the monitor to rain or moisture.
- Never try to open the monitor cabinet. The dangerous high voltages inside the monitor may result in serious physical injury.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- Slots and openings on the back or top of the cabinet are provided for ventilation. Do not block these slots. Never place this product near or over a radiator or heat source unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
- Use the appropriate power plug which complies with your local power standard.
- Do not overload power strips and extention cords. Overloading can result in fire or electric shock.
- Avoid dust, humidity, and temperature extremes. Do not place the monitor in any area where it may become wet. Place the monitor on a stable surface.
- Unplug the unit during a lightning storm or if it will not be used for a long period of time. This will protect the monitor from damage due to power surges.
- Never push objects or spill liquid of any kind into the slots on the monitor cabinet.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100-240V AC.
- If you encounter technical problems with the monitor, contact a qualified service technician or your retailer.

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Care & Cleaning

- Before you lift or reposition your monitor, it is better to disconnect the cables and power cord. Follow the correct lifting techniques when positioning the monitor. When lifting or carrying the monitor, grasp the edges of the monitor. Do not lift the display by the stand or the cord.
- Cleaning. Turn your monitor off and unplug the power cord. Clean the monitor surface with a lint-free, non-abrasive cloth. Stubborn stains may be removed with a cloth dampened with mild cleaner.
- Avoid using a cleaner containing alcohol or acetone. Use a cleaner intended for use with the LCD. Never spray cleaner directly on the screen, as it may drip inside the monitor and cause an electric shock.

The following symptoms are normal with the monitor:

- The screen may flicker during the initial use due to the nature of the fluorescent light. Turn off the Power Switch and turn it on again to make sure that the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- When the same image is displayed for hours, an afterimage of the previous screen may remain after switching the image. The screen will recover slowly or you can turn off the Power Switch for hours.
- When the screen becomes black or flashes, or cannot work anymore, contact your dealer or service center to fix it. Do not repair the screen by yourself!

Conventions used in this guide

WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.

IMPORTANT: Information that you MUST follow to complete a task.

NOTE: Tips and additional information to aid in completing a task.

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Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS websites**

   The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to **http://www.asus.com**

2. **Optional documentation**

   Your product package may include optional documentation, such as warranty card, that may have been added by your dealer. These documents are not part of the standard package.

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1.1 Welcome!

Thank you for purchasing the ASUS® VK221/VK222 Series LCD monitor!

The latest widescreen LCD monitor from ASUS provides a crisper, broader, and brighter display, plus a host of features that enhance your viewing experience.

With these features, you can enjoy the convenience and delightful visual experience that the VK221/VK222 Series brings you!

1.2 Package contents

Check your VK221/VK222 Series LCD package for the following items:

- ✓ LCD monitor
- ✓ Monitor base
- ✓ Support CD
- ✓ Quick Start Guide
- ✓ 1 x Power cord
- ✓ 1 x VGA cable
- ✓ 1 x WebCam USB cable
- ✓ 1 x DVI cable (Only for some models)
- ✓ 1 x Audio cable (Only for some models)

If any of the above items is damaged or missing, contact your retailer immediately.

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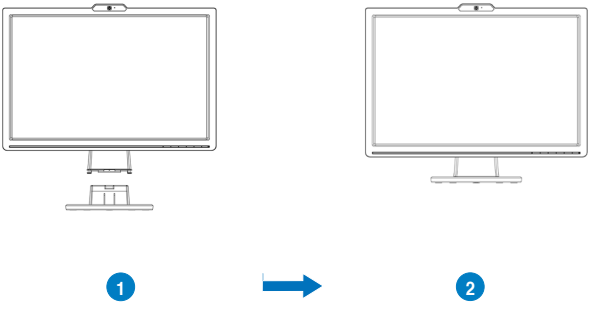
1.3 Assembling the monitor base

To assemble the monitor base:

1. Connect the base with the monitor. A click indicates that the base has been connected successfully.
2. Adjust the monitor to the angle that is most comfortable for you.

We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.



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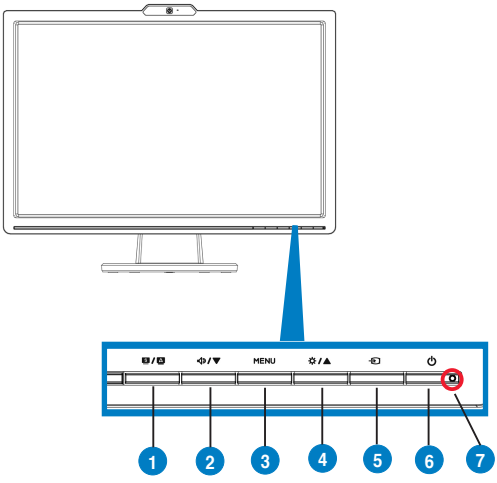
1.4 Monitor introduction

1.4.1 Front of the LCD monitor

1.4.1.1 VK222H/VK222U



1. S/A button:
   - Automatically adjust the image to its optimized position, clock, and phase by long pressing this button for 2-4 seconds (for VGA mode only).
   - Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
   - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
2. ◀/▼ Button:
   - Press this button to decrease the value of the function selected or move to the next fuction.
   - This is also a hotkey for Volume adjustment.
3. MENU Button:
   - Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.
4. ☼/▲ Button:
   - Press this button to increase the value of the function selected or move to the previous fuction.
   - This is also a hotkey for Brightness adjustment.
5. Input Select Button
   Use this hotkey to switch from VGA,DVI,HDMI input signal. (for some models)
6. Power button
   - Press this button to turn the monitor on/off.
7. Power indicator
   - The color definition of the power indicator is as the below table.

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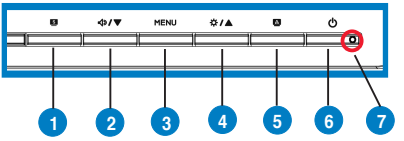
1.4.1.2 VK221S/VK222S



1. S button:
   - Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
   - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
2. ◀/▼ Button:
   - Press this button to decrease the value of the function selected or move to the next fuction.
   - This is also a hotkey for Volume adjustment.
3. MENU Button:
   - Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.
4. ☼/▲ Button:
   - Press this button to increase the value of the function selected or move to the previous fuction.
   - This is also a hotkey for Brightness adjustment.
5. A button:
   - Automatically adjust the image to its optimized position, clock, and phase by long pressing this button (for VGA mode only).
6. ⏻ Power button
   - Press this button to turn the monitor on/off.
7. Power indicator
   - The color definition of the power indicator is as the below table.

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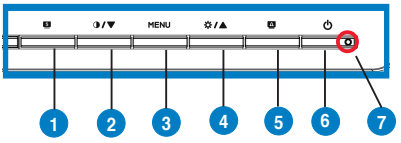
1.4.1.3 VK221D



1. S button:
   - Use this hotkey to switch from five video preset modes (Game Mode, Night View Mode, Scenery Mode, Standard Mode, Theater Mode) with SPLENDID™ Video Enhancement Technology.
   - Exit the OSD menu or go back to the previous menu as the OSD menu is active.
2. ◑/▼ Button:
   - Press this button to decrease the value of the function selected or move to the next fuction.
   - This is also a hotkey for Contrast Ratio adjustment.
3. MENU Button:
   - Press this button to enter/select the icon (function) highlighted while the OSD menu is activated.
4. ☼/▲Button:
   - Press this button to increase the value of the function selected or move to the previous fuction.
   - This is also a hotkey for Brightness adjustment.
5. A button:
   - Automatically adjust the image to its optimized position, clock, and phase by long pressing this button (for VGA mode only).
6. ⏻ Power button
   - Press this button to turn the monitor on/off.
7. Power indicator
   - The color definition of the power indicator is as the below table.

Status	Description
Blue	ON
Amber	Standby mode
OFF	OFF

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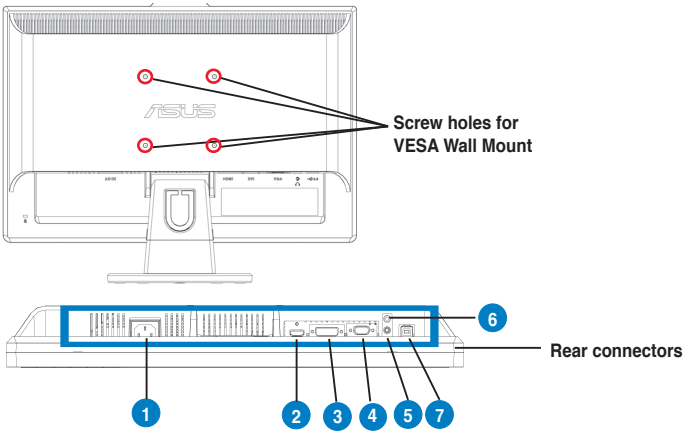
1.4.2 Rear of the LCD monitor

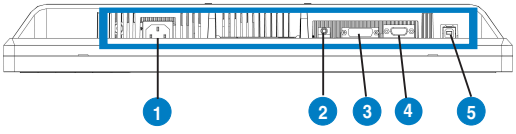
1.4.2.1 VK222H



Rear connectors (from left to right)

1. **AC-IN port**. This port connects the power connector from the bundled power cord.
2. **HDMI-IN port**.This port connects the HDMI source .
3. **DVI port**. This 24-pin port is for PC (Personal Computer) DVI-D digital signal connection.
4. **VGA port**. This 15-pin port is for PC VGA connection.
5. **Audio-in port**. This port connects PC audio source by the bundled audio cable.
6. **Earphone-out Port.** This port connects earphone or stand alone speakers.
7. **USB-IN port** This port connects the Web-cam .

1.4.2.2 VK222U/VK222S/VK221S/VK221D



1. **AC-IN port**. This port connects the power connector from the bundled power cord.
2. **Audio-in port**. This port connects PC audio source by the bundled audio cable.(Only for some models)
3. **DVI port**. This 24-pin port is for PC (Personal Computer) DVI-D digital signal connection. (Only for some models)
4. **VGA port**. This 15-pin port is for PC VGA connection.
5. **USB-IN port.** This port connects the Web-cam .

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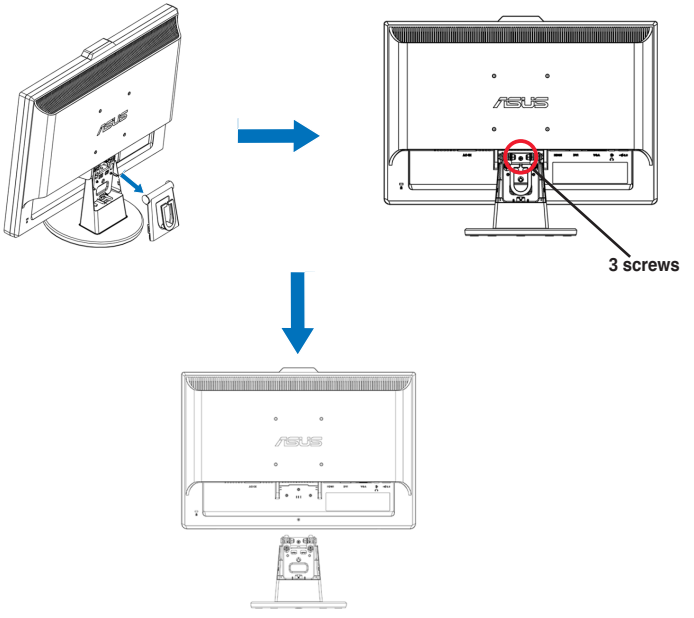
2.1 Detaching the arm/stand (for VESA wall mount)

The detachable stand of the VK221/VK222 Series LCD monitor is specially designed for VESA wall mount.

To detach the arm/stand:

1. Remove the arm cover.
2. Have the front of the monitor face down on a table.
3. Use a screwdriver to remove the three screws on the stand of the monitor as the below drawing shows.
4. Detach the arm from the monitor.

- We recommend that you cover the table surface with soft cloth to prevent damage to the monitor.
- Hold the stand of the monitor when you remove the screws.



The VESA wall mount kit (100 mm x 100 mm) is purchased separately.

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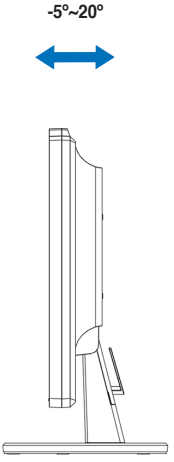
2.2 Adjusting the monitor

- For optimal viewing, we recommend that you look at the full face of the monitor, then adjust the monitor to the angle that is most comfortable for you.
- Hold the stand to prevent the monitor from falling when you change its angle.
- You can adjust the monitor's angle from -5º to 20º.



2.3 Install Life-Frame 2 software

ASUS VK222/VK221 series provides the easy-to-use LifeFrame 2 software that can work with the webcam,allowing users to create their own photos or video clips.

- LifeFrame 2 only supports Microsoft® Windows® Vista/XP Service Pack 2 operating systems.
- The LifeFrame 2 software is bundled in the support CD.

Installation instructions

1. Close all other applications.
2. Insert the support CD into the optical drive and run the LifeFrame 2 program.
3. Follow the on-screen instructions to complete the installation.

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3.1 OSD (On-Screen Display) menu

3.1.1 How to reconfigure

1. Press the MENU button to activate the OSD menu.

2. Press ▼ and ▲ to navigate through the functions. Highlight and activate the desired function by pressing the MENU button. If the function selected has a sub-menu, press ▼ and ▲ again to navigate through the sub-menu functions. Highlight and activate the desired sub-menu function by pressing the MENU button.
3. Press ▼ and ▲ to change the settings of the selected function.
4. To exit the OSD menu, press the S button. Repeat step 2 and step 3 to adjust any other function.

3.1.2 OSD Function Introduction

1. Spendid

This function contains five sub-functions you can select for your preference. Each mode has the Reset selection, allowing you to maintain your setting or return to the preset mode.

- **Scenery Mode**: best choice for scenery photo display with SPLENDID™ Video Enhancement.
- **Standard Mode**: best choice for document editing with SPLENDID™ Video Enhancement.
- **Theater Mode**: best choice for movie with SPLENDID™ Video Enhancement.
- **Game Mode**: best choice for game playing with SPLENDID™ Video Enhancement.
- **Night View Mode**: best choice for dark-scene game or movie with SPLENDID™ Video Enhancement.

- In the Standard Mode, the **Satuation** and ASCR functions are not user-configurable.
- In the other modes, the **sRGB** function is not user-configurable.

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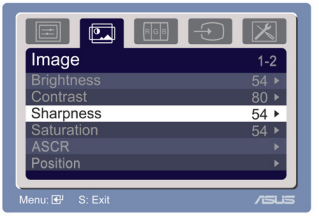
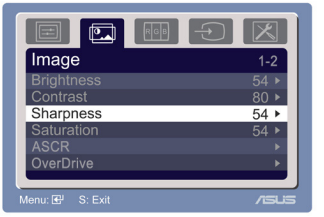
2. Image

You can adjust brightness, contrast, sharpness, saturation,position (VGA only), and focus (VGA only) from this main function.

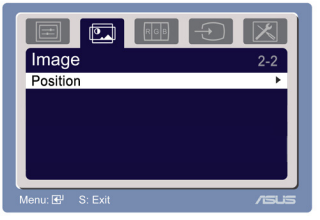
VK221-P1



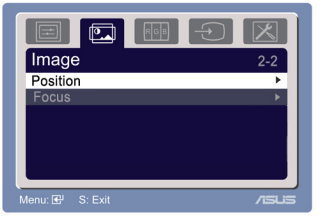
VK222 -P1



VK221-P2



VK222 -P2

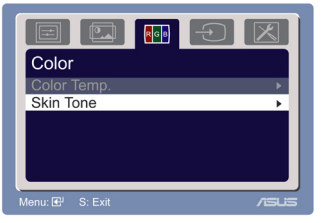


- Brightness: the adjusting range is from 0 to 100. ☼ is a hotkey to activate this function.
- Contrast: the adjusting range is from 0 to 100.
- Sharpness: the adjusting range is from 0 to 100.
- Saturation: the adjusting range is from 0 to 100.
- ASCR:Select YES or NO to enable or disable dynamic contrast ratio function.
- Over Drive:To speed up the respense time by Over drive technology. the adjusting range is from 0 to 100(Not availabe for VK221S/D)
- Position: adjusts the horizontal postition (H-Position) and the vertical position (V-Position) of the image. The adjusting range is from 0 to 100.
- Focus: reduces Horizonal-line noise and Vertical-line noise of the image by adjusting (Phase) and (Clock) separately. The adjusting range is from 0 to 100.

- Phase adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the screen shows horizontal disturbances.
- Clock (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the image is not proportional.

3. Color

Select the image color you like from this function.



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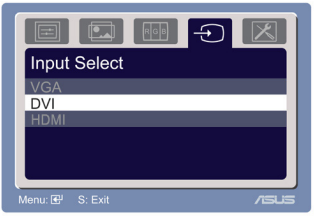
- Color Temp.: contains five color modes including Cool, Normal, Warm, sRGB, and User mode.
- Skin Tone: contains three color modes including Reddish, Natural, and Yellowish.

In the User mode, colors of R (Red), G (Green), and B (Bluee) are user-configurable; the adjusting range is from 0-100.

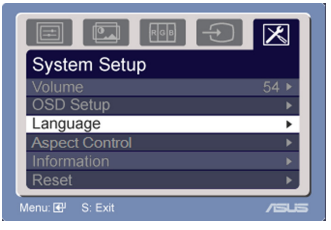
4. Input Select

In this function, you can select VGA,DVI,HDMI input source. (Only for some models)



5. System Setup

Allow you to adjust the system.



- Volume: the adjusting range is from 0 to 100. is a hotkey to activate this function.
- OSD Setup: adjusts the horizontal postition (H-Position) and the vertical position (V-Position) of the OSD. The adjusting range is from 0 to 100. In the OSD Timeout selection, you can adjust the OSD timeout from 10 to 120.
- Language: there are ten languages for your selection, including English, German, Italian, French, Dutch, Spanish, Russian, Traditional Chinese, Simplified Chinese, Japanese, and Korean.
- Aspect Controls: adjusts the aspect ratio to “Full” or “4:3”.
- Information: shows the monitor information.
- Reset: “Yes” allows you to revert to the preset mode.

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3.2 Specifications summary

For VK222 series models

Model	VK222H	VK222U	VK222S
Panel Size	22"Wide	22"Wide	22"Wide
Max. Resolution	WSXGA+ 1680 x 1050	WSXGA+ 1680 x 1050	WSXGA+ 1680 x 1050
Brightness (Typ.)	300cd/㎡	300cd/㎡	300cd/㎡
Contrast Ratio (Typ.)	1000:1	1000:1	1000:1
Viewing Angle (H/V, CR=10)	≧160°(V) ; ≧170°(H)	≧160°(V) ; ≧170°(H)	≧160°(V) ; ≧170°(H)
Display Colors	16.7 M	16.7 M	16.7 M
Response Time	2ms (Gray to Gray)	2ms (Gray to Gray)	2ms (Gray to Gray)
Webcam (built-in)	1.3M Pixel	1.3M Pixel	1.3M Pixel
HDMI input	Yes	-	-
DVI input	DVI with HDCP	DVI with HDCP	-
D-Sub input	Yes	Yes	Yes
Satellite Speaker	2W x 2 stereo	1W x 2 stereo	1W x 2 stereo
Sound from HDMI	Yes	-	-
Tilt	+20° ~ -5°	+20° ~ -5°	+20° ~ -5°
VESA Wall Mounting	Yes (100mm x 100mm)	Yes (100mm x 100mm)	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	513x412x210	513x412x210	513x412x210
Box Dimension (WxHxD)	590x454x162	590x454x162	590x454x162
Net Weight (Esti.)	5.1kg	4.9kg	4.7kg
Gross Weight (Esti.)	7.1kg	6.9kg	6.7kg
Voltage Rating	AC: 100~240V (Built-in)	AC: 100~240V (Built-in)	AC: 100~240V (Built-in)

For VK221 series models

Model	VK221S	VK221D
Panel Size	21.6"Wide	21.6"Wide
Max. Resolution	WSXGA+ 1680 x 1050	WSXGA+ 1680 x 1050
Brightness (Typ.)	300cd/㎡	300cd/㎡
Contrast Ratio (Typ.)	1000:1	1000:1
Viewing Angle (H/V, CR=10)	≧160°(V) ; ≧170°(H)	≧160°(V) ; ≧170°(H)
Display Colors	16.7 M	16.7 M
Response Time	5ms (On/Off)	5ms (On/Off)
Webcam (built-in)	1.3M Pixel	1.3M Pixel
HDMI input	-	-
DVI input	-	-
D-Sub input	Yes	Yes
Satellite Speaker	1W x 2 stereo	-
Sound from HDMI	-	-
Tilt	+20° ~ -5°	+20° ~ -5°
VESA Wall Mounting	Yes (100mm x 100mm)	Yes (100mm x 100mm)
Phys. Dimension (WxHxD)	513x412x210	513x412x210
Box Dimension (WxHxD)	590x454x162	590x454x162
Net Weight (Esti.)	5.0kg	4.9kg
Gross Weight (Esti.)	7.0kg	6.9kg
Voltage Rating	AC: 100~240V (Built-in)	AC: 100~240V (Built-in)

***Specifications are subject to change without notice.**

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3.3 Troubleshooting (FAQ)

Problem	Possible Solution
Power LED is not ON	• Press the ⏻ button to check if the monitor is in the ON mode. • Check if the power cord is properly connected to the monitor and the power outlet.
The power LED lights amber and there is no screen image	• Check if the monitor and the computer are in the ON mode. • Make sure the signal cable is properly connected the monitor and the computer. • Inspect the signal cable and make sure none of the pins are bent. • Connect the computer with another available monitor to check if the computer is properly working.
Screen image is too light or dark	• Adjust the Contrast and Brightness settings via OSD.
Screen image is not centered or sized properly	• Press the A button for two seconds to automatically adjust the image. • Adjust the H-Position or V-Position settings via OSD.
Screen image bounces or a wave pattern is present in the image	• Make sure the signal cable is properly connected to the monitor and the computer. • Move electrical devices that may cause electrical interference.
Screen image has color defects (white does not look white)	• Inspect the signal cable and make sure that none of the pins are bent. • Perform Reset via OSD. • Adjust the R/G/B color settings or select the Color Temperature via OSD.
Screen image is blurry or fuzzy	• Press the A button for two seconds to automatically adjust the image (for VGA mode only). • Adjust the Phase and Clock settings via OSD.
No sound or sound is low	• Ensure that the audio cable is properly connected to the monitor and the computer • Adjust the volume settings of both your monitor and computer. • Ensure that the computer sound card driver is properly installed and activated.
Webcam is not working	• Make sure that you have connected the USB 2.0 cable securely to both the LCD monitor and your computer. • Make sure that you use the Microsoft® Windows® Vista/XP Service Pack 2 operation systems.

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3.4 VK221-VK222 Supported Timing List

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
VGA	640x480	31.469	60Hz	25.175
	640x480	37.861	72Hz	31.5
	640x480	37.5	75Hz	31.5
SVGA	800x600	35.156	56Hz	36
	800x600	37.879	60Hz	40
	800x600	48.077	72Hz	50
	800x600	46.875	75Hz	49.5
XGA	1024x768	48.363	60Hz	65
	1024x768	56.476	70Hz	75
	1024x768	60.023	75Hz	78.75
SXGA	1152x864	67.5	75Hz	108
	1280x960	60	60Hz	108
	1280x1024	63.981	60Hz	108
	1280x1024	79.976	75Hz	135
WXGA+	1440x900	55.935	60Hz	106.5
	1440x900	70.635	75Hz	136.75
WSXGA+	1680x1050	65.29	60Hz	146.25

IBM Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
DOS	640x350	31.469	70Hz	25.175
DOS	720x400	31.469	70Hz	28.322

MAC Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
VGA	640x480	35	67Hz	30.24
SVGA	832x624	49.725	75Hz	57.2832

VESA Modes

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
720P	1280x720	44.772	60Hz	74.5
	1280x720	56.456	75Hz	95.75
WXGA+	1280x768	47.776	60Hz	79.5
	1280x768	60.289	75Hz	102.25
	1280x800	49.702	60Hz	83.5
	1280x800	62.795	75Hz	106.5
1080P	1920x1080	66.587	60Hz	138.5
WUXGA	1920x1200	74.038	60Hz	154

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VK222H **HDMI Supported Primary Timings**

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
480P	640x480P	31.469	59.94Hz	25.175
	640x480P	31.5	60Hz	25.2
	720x480P	31.469	59.94Hz	27
	720x480P	31.5	60Hz	27.027
576P	720x576P,	31.25	50Hz	27
720P	1280x720P	37.5	50Hz	74.25
	1280x720P	44.955	59.94Hz	74.176
	1280x720P	45	60Hz	74.25
1080i	1920x1080i	28.125	50Hz	74.25
	1920x1080i	33.716	59.94Hz	74.176
	1920x1080i	33.75	60Hz	74.25

VK222H **HDMI Supported Optional Timings**

Mode	Resolution	H(KHz)	V(Hz)	Pixel(MHz)
480P	1440x480P	31.469	59.94Hz	54
	1440x480P	31.5	60Hz	54.054
576P	1440x576P	31.25	50Hz	54
1080P	1920x1080P	56.25	50Hz	148.5
	1920x1080P	67.433	59.94Hz	148.352
	1920x1080P	67.5	60Hz	148.5

*** Modes not listed in the above tables may not be supported. For optimal resolution, we recommend that you choose a mode listed in the above tables**

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